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Classification Data  
NEWS 5 FEB 02 Simultaneous left and right truncation (SLART) added  
for CERAB, COMPUAB, ELCOM, and SOLIDSTATE  
NEWS 6 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING  
NEWS 7 FEB 06 Patent sequence location (PSL) data added to USGENE  
NEWS 8 FEB 10 COMPENDEX reloaded and enhanced  
NEWS 9 FEB 11 WTEXTILES reloaded and enhanced  
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and 2009 MeSH terms  
NEWS 14 FEB 23 TOXCENTER updates mirror those of MEDLINE - more  
precise author group fields and 2009 MeSH terms  
NEWS 15 FEB 23 Three million new patent records blast AEROSPACE into  
STN patent clusters  
NEWS 16 FEB 25 USGENE enhanced with patent family and legal status  
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NEWS 17 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display  
formats  
NEWS 18 MAR 11 EPFULL backfile enhanced with additional full-text  
applications and grants  
NEWS 19 MAR 11 ESBIOBASE reloaded and enhanced  
NEWS 20 MAR 20 CAS databases on STN enhanced with new super role  
for nanomaterial substances  
NEWS 21 MAR 23 CA/CAPLUS enhanced with more than 250,000 patent  
equivalents from China  
NEWS 22 MAR 30 IMSPATENTS reloaded and enhanced  
NEWS 23 APR 03 CAS coverage of exemplified prophetic substances  
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AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.  
  
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FILE 'HOME' ENTERED AT 08:06:40 ON 14 APR 2009

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FULL ESTIMATED COST

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DICTIONARY FILE UPDATES: 13 APR 2009 HIGHEST RN 1134263-89-0

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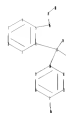
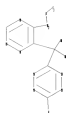
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=>

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chain nodes :
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ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
5-16 6-13 7-18 10-13 13-15 13-14 16-17 17-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
13-15 13-14 17-20
exact bonds :
5-16 6-13 7-18 10-13 16-17
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

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G1:C,H

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
20:CLASS

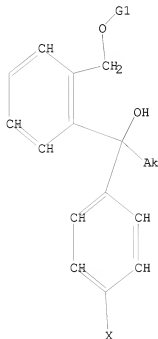
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L1            STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1            STR

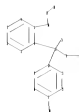
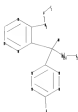


G1 C,H

Structure attributes must be viewed using STN Express query preparation.

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ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
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ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
13-15 14-22 17-20
exact bonds :
5-16 6-13 7-18 10-13 13-14 16-17
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

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G1:C,H

G2:C,H,O,N,CN

Match level :

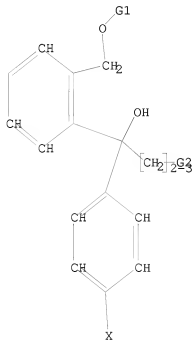
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11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
20:CLASS 22:CLASS

L2 STRUCTURE UPLOADED

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L2 HAS NO ANSWERS

L2 STR



G1 C, H

G2 C, H, O, N, CN

Structure attributes must be viewed using STN Express query preparation.

=> s 12 sss full

FULL SEARCH INITIATED 08:16:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 539 TO ITERATE

100.0% PROCESSED 539 ITERATIONS

127 ANSWERS

SEARCH TIME: 00.00.01

L3 127 SEA SSS FUL L2

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

193.08

193.30

FILE 'CAPLUS' ENTERED AT 08:16:33 ON 14 APR 2009

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FILE COVERS 1907 - 14 Apr 2009 VOL 150 ISS 16  
FILE LAST UPDATED: 13 Apr 2009 (20090413/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4          68 L3

=> s l4 and pd<20040300
          24836013 PD<20040300
              (PD<20040300)
L5          24 L4 AND PD<20040300

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          35581 ANHYDRIDES
          253168 ANHYDRIDE
              (ANHYDRIDE OR ANHYDRIDES)
          25820 IMIDE
          11104 IMIDES
          31613 IMIDE
              (IMIDE OR IMIDES)
          16155 PRECIPITATE
          15240 PRECIPITATES
          29451 PRECIPITATE
              (PRECIPITATE OR PRECIPITATES)
          208189 PPT
          71553 PPTS
          259282 PPT
              (PPT OR PPTS)
          277250 PRECIPITATE
              (PRECIPITATE OR PPT)
L6          4 L5 AND (ANHYDRIDE OR IMIDE OR PRECIPITATE)

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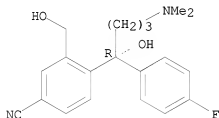
L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

AB The enzymic resolution of 4-[4-(Dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)benzonitrile, a useful intermediate in the synthesis of enantiomerically pure citalopram, has been studied. Candida antarctica lipase B (CAL-B) catalyzes the enzymic acetylation of the primary benzylic alc. with high enantioselectivity at the quaternary stereogenic center. This enzymic acetylation yielded the acetylated

(+)-3-[(acetyloxy)methyl]-4-[(1R)-4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]benzonitrile and the desired  
 (-)-4-[(1S)-4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)benzonitrile. The enzymic enantioselective hydrolysis of the 3-acetyloxymethyl derivative catalyzed by CAL-B is also possible.

ACCESSION NUMBER: 2004:40088 CAPLUS  
 DOCUMENT NUMBER: 140:287145  
 TITLE: Enzymatic resolution of a quaternary stereogenic center as the key step in the synthesis of (S)-(+)-citalopram  
 AUTHOR(S): Solares, Laura F.; Brieva, Rosario; Quiros, Margarita; Llorente, Isidro; Bayod, Miguel; Gotor, Vicente  
 CORPORATE SOURCE: Departamento de Química Orgánica e Inorgánica, Facultad de Química, Universidad de Oviedo, Oviedo, 33071, Spain  
 SOURCE: Tetrahedron: Asymmetry (2004), 15(2), 341-345  
 CODEN: TASYE3; ISSN: 0957-4166  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 140:287145  
 IT 481047-48-7P  
 RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (regioselective, chemoselective enzymic acetylation and resolution of [(dimethylamino)(fluorophenyl)(hydroxy)butyl](hydroxymethyl)benzonitrile as key step in synthesis of (S)-(+)-citalopram)  
 RN 481047-48-7 CAPLUS  
 CN Benzonitrile, 4-[(1R)-4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)- (CA INDEX NAME)

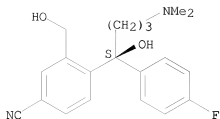
Absolute stereochemistry. Rotation (+).



IT 488787-59-3P  
 RL: BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)  
 (regioselective, chemoselective enzymic acetylation and resolution of [(dimethylamino)(fluorophenyl)(hydroxy)butyl](hydroxymethyl)benzonitrile as key step in synthesis of (S)-(+)-citalopram)  
 RN 488787-59-3 CAPLUS  
 CN Benzonitrile, 4-[(1S)-4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)- (CA INDEX NAME)

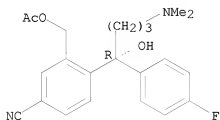
Absolute stereochemistry. Rotation (-).





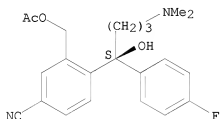
IT 674806-13-4P 674806-14-5P  
 RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation)  
 (regioselective, chemoselective enzymic acetylation and resolution of  
 [(dimethylamino) (fluorophenyl) (hydroxy) butyl] (hydroxymethyl) benzonitril  
 e as key step in synthesis of (S)-(+)-citalopram)  
 RN 674806-13-4 CAPLUS  
 CN Benzonitrile, 3-[(acetyloxy)methyl]-4-[(1R)-4-(dimethylamino)-1-(4-  
 fluorophenyl)-1-hydroxybutyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

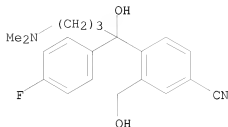


RN 674806-14-5 CAPLUS  
 CN Benzonitrile, 3-[(acetyloxy)methyl]-4-[(1S)-4-(dimethylamino)-1-(4-  
 fluorophenyl)-1-hydroxybutyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 103146-25-4, 4-[4-(Dimethylamino)-1-(4-fluorophenyl)-1-  
 hydroxybutyl]-3-(hydroxymethyl) benzonitrile  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (regioselective, chemoselective enzymic acetylation and resolution of  
 [(dimethylamino) (fluorophenyl) (hydroxy) butyl] (hydroxymethyl) benzonitril  
 e as key step in synthesis of (S)-(+)-citalopram)  
 RN 103146-25-4 CAPLUS  
 CN Benzonitrile, 4-[4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-  
 (hydroxymethyl)- (CA INDEX NAME)



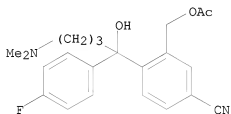
IT 674806-15-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(regioselective, chemoselective enzymic acetylation and resolution of [(dimethylamino)(fluorophenyl)(hydroxy)butyl](hydroxymethyl)benzonitrile as key step in synthesis of (S)-(+)-citalopram)

RN 674806-15-6 CAPLUS

CN Benzonitrile, 3-[(acetyloxy)methyl]-4-[4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]- (CA INDEX NAME)



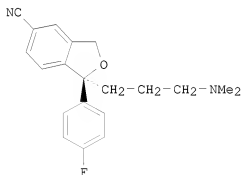
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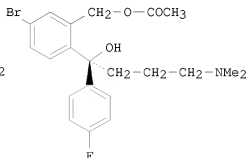
THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

GI



I



II

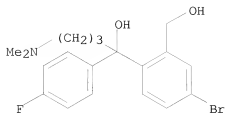
AB Preparation of escitalopram (I) via the chiral enriched monoacetate ester of (4-bromo-2-(hydroxymethyl)phenyl)-(4-fluorophenyl)methanol (II) was disclosed. For example, a racemic mixture of monoacetate ester II (13.52 g)

and (+)-di-p-toluoyl tartaric acid (11.92 g) in acetone (135 mL) was heated at reflux until a pale brown solution was obtained. The solution was cooled, the acetone removed under vacuum and the resulting brown foam recrystd. from acetone-hexane (2:1) to afford the (+)-di-p-toluoyl tartaric acid salt of monoacetate ester II with a diastereomeric ratio of 97:3. Of note, the claimed (+)-di-p-toluoyl tartaric acid salt of monoacetate ester II was converted to escitalopram oxalate in 4-steps with  $[\alpha]_D = +10.1^\circ$  (at 20°C, c 0.95 in MeOH).

ACCESSION NUMBER: 2003:837069 CAPLUS  
DOCUMENT NUMBER: 139:337880  
TITLE: Preparation of escitalopram via the chiral enriched diol monoesters of (4-bromo-2-(hydroxymethyl)phenyl)-(4-fluorophenyl)methanol  
INVENTOR(S): Tse, Hoi Lun Allan  
PATENT ASSIGNEE(S): Torcan Chemical Ltd., Can.  
SOURCE: PCT Int. Appl., 30 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

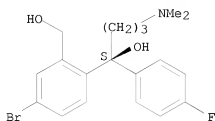
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2381341	A1	20031009	CA 2002-2381341	20020409 <--
AU 2003218575	A1	20031027	AU 2003-218575	20030408 <--
EP 1495013	A1	20050112	EP 2003-711761	20030408
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
US 20060009515	A1	20060112	US 2005-510890	20050311
PRIORITY APPLN. INFO.:			CA 2002-2381341	A 20020409
			WO 2003-CA522	W 20030408

OTHER SOURCE(S): CASREACT 139:337880  
IT 488148-10-3P 488148-12-5P 616217-14-2P  
616217-15-3P 616217-16-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; preparation of escitalopram via a chiral enriched diol monoester intermediate)  
RN 488148-10-3 CAPLUS  
CN 1,2-Benzenedimethanol, 4-bromo- $\alpha$ l-[3-(dimethylamino)propyl]- $\alpha$ l-(4-fluorophenyl)- (CA INDEX NAME)

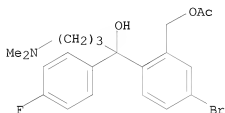


RN 488148-12-5 CAPLUS  
 CN 1,2-Benzenedimethanol, 4-bromo- $\alpha$ 1-[3-(dimethylamino)propyl]- $\alpha$ 1-(4-fluorophenyl)-, ( $\alpha$ 1S)- (CA INDEX NAME)

Absolute stereochemistry.

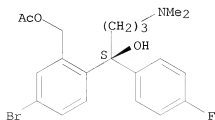


RN 616217-14-2 CAPLUS  
 CN 1,2-Benzenedimethanol, 4-bromo- $\alpha$ 1-[3-(dimethylamino)propyl]- $\alpha$ 1-(4-fluorophenyl)-, 2-acetate (CA INDEX NAME)



RN 616217-15-3 CAPLUS  
 CN 1,2-Benzenedimethanol, 4-bromo- $\alpha$ 1-[3-(dimethylamino)propyl]- $\alpha$ 1-(4-fluorophenyl)-, 2-acetate, ( $\alpha$ 1S)- (CA INDEX NAME)

Absolute stereochemistry.



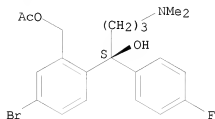
RN 616217-16-4 CAPLUS  
 CN Butanedioic acid, 2,3-bis[4-(methylbenzoyl)oxy]-, (2S,3S)-, compd. with [5-bromo-2-[(1S)-4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]phenyl]methyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 616217-15-3

CMF C21 H25 Br F N O3

Absolute stereochemistry.

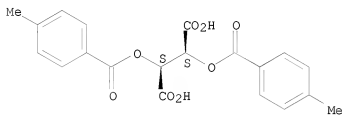


CM 2

CRN 32634-68-7

CMF C20 H18 O8

Absolute stereochemistry. Rotation (+).



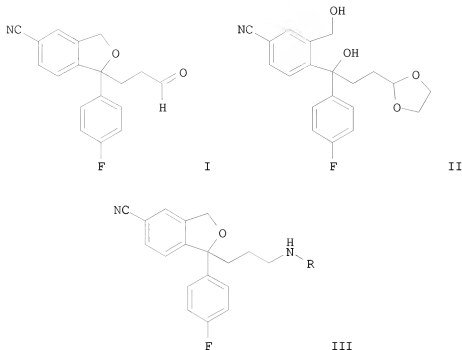
REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on SIN

GI



AB This invention relates to the preparation of I and II and derivs. of I and II in their racemic, enantiomerically enriched, or optically pure forms. This invention further relates to novel compns. of matter containing enantiomerically enriched (-)-desmethylocitalopram (-)-III (R = Me), (+)-didesmethylocitalopram (+)-III (R = Me), or (-)-didesmethylocitalopram (-)-III (R = H) or mixts. thereof in optimal ratios. Contrary to prior teachings, the enantiomerically enriched citalopram metabolites disclosed herein possess potent serotonin reuptake inhibitory activity, with minimal inhibitory effects on the reuptake of other known monoamines, e.g., norepinephrine (NE) or dopamine (DA). For example, stepwise reaction of 1-oxo-1,3-dihydroisobenzofuran-5-carbonitrile with 4-fluorophenylmagnesium bromide and the chiral Grignard reagent, which was prepared from 2-(2-bromoethyl)-[1,3]dioxolane and Mg powder, in THF gave II. Cyclization using mesyl chloride in CH<sub>2</sub>Cl<sub>2</sub>, followed by reduction provided the I. Reaction of the aldehyde with (-)-tert-butylsulfonamide in the presence of Ti(OEt)<sub>4</sub> in EtOH afforded the sulfonamide, which was reduced to the amine III (R = H) with 10% HCl in MeOH. Protection of the amine with BOC anhydride in the presence of TEA in CH<sub>2</sub>Cl<sub>2</sub> provided the enantiomerically enriched isomers, which were separated on a chiral column and subsequently deprotected with TFA to give (+)-III (R = H) and (-)-III (R = H). In biol. assays, (-)-III (R = H) and (+)-III (R = H) strongly inhibited serotonergic 5-HT receptor activity with K<sub>i</sub> values of 5.8 nM and 90 nM, resp., with little effect on NE and DA transporter activity. By comparison, racemic citalopram inhibited serotonin reuptake with a K<sub>i</sub> of 3.9 nM. The present invention also discloses methods for treating disorders, dysfunctions and diseases for which inhibition of serotonin reuptake is therapeutically beneficial. In particular, the present invention discloses a method for treating various forms of depression and other CNS disorders with pharmaceutical compns. described herein.

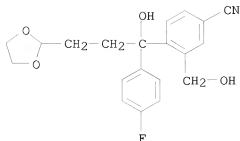
ACCESSION NUMBER: 2003:376842 CAPLUS

DOCUMENT NUMBER: 138:385297

TITLE: Methods for treating depression and other CNS disorders using enantiomerically enriched desmethyl- and didesmethyl- metabolites of citalopram

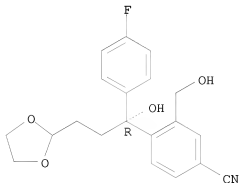
INVENTOR(S): Bush, Larry R.; Currie, Mark G.; Senanayake, Chris H.;  
 Fang, Kevin Q.  
 PATENT ASSIGNEE(S): Sepracor, Inc., USA  
 SOURCE: PCT Int. Appl., 58 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003040121	A1	20030515	WO 2002-US35408	20021105 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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AU 2002356903	A1	20030519	AU 2002-356903	20021105 <--
AU 2002356903	A2	20030519		
EP 1446396	A1	20040818	EP 2002-802848	20021105
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BR 2002013949	A	20040831	BR 2002-13949	20021105
HU 2004001934	A2	20050128	HU 2004-1934	20021105
HU 2004001934	A3	20070529		
JP 2005510518	T	20050421	JP 2003-542167	20021105
CN 1705654	A	20051207	CN 2002-822084	20021105
NZ 532478	A	20070223	NZ 2002-532478	20021105
IN 2004KN00505	A	20060616	IN 2004-KN505	20040419
ZA 2004003409	A	20051026	ZA 2004-3409	20040505
MX 2004004368	A	20040811	MX 2004-4368	20040507
US 20040266864	A1	20041230	US 2004-842055	20040507
NO 2004002013	A	20040514	NO 2004-2013	20040514
PRIORITY APPLN. INFO.:			US 2001-337608P	P 20011108
			WO 2002-US35408	W 20021105
IT 526204-34-2P, 4-[3-([1,3]Dioxolan-2-yl)-1-(4-fluorophenyl)-1-hydroxypropyl]-3-hydroxymethylbenzonitrile 526204-42-2P, (R)-4-[3-([1,3]Dioxolan-2-yl)-1-(4-fluorophenyl)-1-hydroxypropyl]-3-hydroxymethylbenzonitrile				
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
(intermediate; preparation of enantiomerically enriched desmethyl- and didesmethyl- metabolites of citalopram for treating depression and other CNS disorders)				
RN 526204-34-2 CAPLUS				
CN Benzonitrile, 4-[3-(1,3-dioxolan-2-yl)-1-(4-fluorophenyl)-1-hydroxypropyl]-3-(hydroxymethyl)- (CA INDEX NAME)				



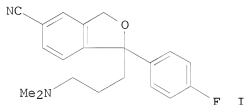
RN 526204-42-2 CAPLUS  
 CN Benzonitrile, 4-[(1R)-3-(1,3-dioxolan-2-yl)-1-(4-fluorophenyl)-1-hydroxypropyl]-3-(hydroxymethyl)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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AB There is described a process for the preparation of citalopram (shown as I) and of its pharmaceutically acceptable salts, which comprises treating a 1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofurancarbaldoxime, O-substituted preferably with a diphenylmethyl or triphenylmethyl group, with formic-acetic anhydride. Furthermore, the total synthesis of citalopram, as free base or as its pharmaceutically acceptable salt, starting from 5-formylphthalide is described.

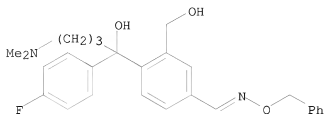
ACCESSION NUMBER: 2003:96293 CAPLUS



DOCUMENT NUMBER: 138:137156  
 TITLE: Process for the preparation of 5-substituted isobenzofurans including citalopram  
 INVENTOR(S): Dall'asta, Leone; Cotticelli, Giovanni  
 PATENT ASSIGNEE(S): Infosint SA, Switz.  
 SOURCE: Eur. Pat. Appl., 22 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

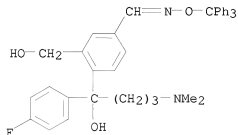
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1281707	A1	20030205	EP 2001-830517	20010802 <--
EP 1281707	B1	20041229		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AT 286037	T	20050115	AT 2001-830517	20010802
ES 2234797	T3	20050701	ES 2001-830517	20010802
CA 2456004	A1	20030213	CA 2002-2456004	20020729 <--
WO 2003011846	A2	20030213	WO 2002-EP8550	20020729 <--
WO 2003011846	A3	20031127		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002325385	A1	20030217	AU 2002-325385	20020729 <--
AU 2002325385	B2	20070705		
BR 2002011858	A	20040921	BR 2002-11858	20020729
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HU 2004001166	A3	20070529		
CN 1555370	A	20041215	CN 2002-818323	20020729
CN 1298713	C	20070207		
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RO 122147	B1	20050130	RO 2004-84	20020729
TW 225055	B	20041211	TW 2002-91117176	20020731
BG 108554	A	20050331	BG 2004-108554	20040130
US 20040230065	A1	20041118	US 2004-776625	20040131
US 7166729	B2	20070123		
MX 2004001030	A	20041203	MX 2004-1030	20040202
ZA 2004000841	A	20050202	ZA 2004-841	20040202
IN 2004KN00132	A	20060407	IN 2004-KN132	20040204
HK 1070357	A1	20070810	HK 2005-102982	20050408
PRIORITY APPLN. INFO.:			EP 2001-830517	A 20010802
			WO 2002-EP8550	W 20020729
OTHER SOURCE(S):		CASREACT 138:137156; MARPAT 138:137156		
IT 493015-02-4P, O-Benzyl-3-hydroxymethyl-4-[α-hydroxy-α-(3-(dimethylamino)propyl)-4-fluorobenzyl]benzaldoxime 493015-07-9P, O-Triphenylmethyl-3-hydroxymethyl-4-[α-hydroxy-α-(3-(dimethylamino)propyl)-4-fluorobenzyl]benzaldoxime				
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
(process for preparation of 5-substituted isobenzofurans including citalopram)				
RN 493015-02-4 CAPLUS				

CN Benzaldehyde, 4-[4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)-, O-(phenylmethyl)oxime (CA INDEX NAME)



RN 493015-07-9 CAPLUS

CN Benzaldehyde, 4-[4-(dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)-, O-(triphenylmethyl)oxime (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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